

WHAT IS CLAIMED IS:

1 1. A method for processing print jobs on a printing device having at least
2 one named print queue and a residual print queue comprising:
3 receiving print jobs;
4 forwarding print jobs having a print queue designation that matches a
5 named print queue in the printing device to the designated print queue;
6 forwarding print jobs having a print queue designation that does not
7 match a named print queue in the printing device to the residual print queue; and
8 printing a print job forwarded to the residual print queue.

1 2. The method of Claim 1, further comprising printing a print job
2 forwarded to a named print queue in the printing device.

1 3. The method of Claim 1, further comprising converting a print queue
2 designation of a print job having a print queue designation that does not match a
3 named print queue in the printing device, to a residual print queue designation,
4 wherein the residual print queue designation corresponds to the residual print
5 queue.

1 4. The method of Claim 3, wherein forwarding print jobs to the residual
2 print queue comprises recognizing converted print queue designations as the
3 residual print queue designation, and forwarding the corresponding print jobs to the
4 residual print queue in response thereto.

1 5. The method of Claim 4, further comprising determining whether the
2 print jobs are targeted for the residual print queue by comparing the residual print
3 queue designation to a group of queue designations including the residual print
4 queue designation and the print queue designations that match a named print
5 queue.

1 6. The method of Claim 1, further comprising determining whether the
2 print jobs identify print queue designations that do not match a named print queue.

1 7. The method of Claim 6, wherein determining whether the print jobs
2 identify print queue designations that do not match a named print queue comprises
3 comparing a queue name field in a corresponding print job command to each of the
4 print queue designations corresponding to the named print queues.

1 8. The method of Claim 7, wherein the print job command is transmitted
2 in accordance to a Line Printer Daemon Protocol (LPD Protocol).

1 9. The method of Claim 1, further comprising commonly filtering the print
2 jobs that identify the print queue designations that do not match a named print
3 queue with a shared filter.

1 10. The method of Claim 9, further comprising filtering the print jobs that
2 identify the print queue designations that match a named print queue with one or
3 more filters different from the shared filter.

1 11. The method of Claim 10, wherein each of the one or more filters
2 corresponding to the print queue designations that match a named print queue is
3 associated with a different one of the print queues.

1 12. The method of Claim 1, further comprising transmitting the print jobs
2 from a client computer system to the printing device.

1 13. The method of Claim 12, wherein at least the client computer system
2 and the printing device are configured in a network.

1 14. The method of Claim 1, wherein forwarding print jobs to the residual
2 print queue comprises transmitting the print jobs as part of a print command,
3 wherein the print command includes a queue name field to identify the print queue
4 designation.

1 15. A printer for receiving and processing print jobs from at least one
2 client computing system, the printer comprising:
3 one or more predefined print queue each having a print queue name
4 respectively assigned thereto;
5 a residual print queue;
6 a job control module configured and arranged to receive the print jobs
7 from the client computing system and to direct the print jobs that do not identify the
8 print queue names assigned to the predefined print queues to the residual print
9 queue; and
10 a print engine to print one or more of the print jobs in the residual print
11 queue.

1 16. The printer as in Claim 15, wherein the job control module comprises
2 a compare module to determine whether the print job identifies one of the print
3 queue names assigned to the predefined print queues.

1 17. The printer as in Claim 16, wherein the job control module further
2 comprises a queue name resolution module coupled to receive an indication from
3 the compare module indicating that the print job identifies an undefined print queue
4 name, and to convert the undefined print queue name to a special print queue name
5 corresponding to the residual print queue.

1 18. A print server for processing print jobs, wherein the print server
2 includes one or more print queues each preassigned a print queue name, the print
3 server comprising:

4 a residual print queue that does not correspond to any of the
5 preassigned print queue names;

6 means for receiving an incoming print job command, wherein the
7 incoming print job command includes a target queue name;

8 means for determining whether the target queue name associated with
9 each of the incoming print job commands conforms to one of the preassigned print
10 queue names;

11 means for directing the print jobs whose target queue name conforms
12 to one of the preassigned print queue names to its respective print queue;

13 means for directing the print jobs whose target queue name does not
14 conform to one of the preassigned print queue names to the residual print queue;

15 means for printing the print jobs in the print queues and the residual
16 print queue.

1 19. The print server as in Claim 18, further comprising first filter means for
2 formatting the print jobs in the residual print queue according to a first filter
3 methodology, and comprising second filter means for formatting the print jobs in at
4 least one of the print queues having the preassigned print queue name according to
5 second filter methodology.

1 20. A computer-readable program storage medium tangibly embodying a
2 program of instructions executable by a print server system to process print jobs by
3 performing steps comprising:

4 assigning print queue names to each of the one or more print queues
5 of the print server system;

6 defining a residual print queue in addition to the one or more print
7 queues;

8 forwarding print jobs, that identify destination print queue names that
9 are not among the assigned print queue names of the one or more print queues, to
10 the residual print queue; and

11 printing one or more of the print jobs stored in the residual print queue.

1 21. The computer-readable program storage medium of Claim 20, wherein
2 the program of instructions further performs the steps comprising:

3 defining a residual print queue name for the residual print queue; and

4 converting each of the destination print queue names that are not
5 among the assigned print queue names to the residual print queue name.

1 22. The computer-readable program storage medium of Claim 20, wherein
2 the program of instructions further performs the step comprising determining
3 whether the print jobs identify destination print queue names that are not among the
4 assigned print queue names.

1 23. The computer-readable program storage medium of Claim 20, wherein
2 the program of instructions further performs the step comprising commonly filtering
3 the print jobs that identify the destination print queue names that are not among the
4 assigned print queue names with a shared filter.

1 24. A computer network for facilitating the processing of print jobs from a
2 plurality of client computer systems by at least one server computer system,
3 comprising:

4 a client job control module, at each client computer system, to
5 generate print job commands for printing corresponding print jobs, wherein each of
6 the print job commands includes a destination print queue name;

7 transmission media coupled between each of the client computer
8 systems and the server computer system to transmit the print jobs from the client
9 computer systems to the server computer system;

10 a plurality of print queues, at the server computer system, wherein
11 each of the plurality of print queues is assigned a predetermined print queue name;

12 a residual print queue at the server computer system;

13 a server job control module, at the server computer system, to receive
14 the print job commands transmitted via the transmission media, and to store the
15 print jobs in one of the plurality of print queues, wherein the server job control
16 module comprises:

17 a compare module configured and arranged to compare the
18 destination print queue names to the predetermined print queue names, and to
19 provide a undefined queue name identifier if the destination print queue names do
20 not correspond to any of the predetermined print queue names;

21 a queue name resolution module coupled to receive the
22 undefined queue name identifier, and to direct the print jobs having the destination
23 print queue names that do not correspond to any of the predetermined print queue
24 names to the residual print queue upon receipt of the undefined queue name
25 identifier; and

26 a print engine coupled to the server computer system to print one or
27 more of the print jobs in the residual print queue.

1 25. A method for processing print jobs on a printing device having one or
2 more print queues; the method comprising:
3 assigning print queue names to each of the one or more print queues
4 of the printing device;
5 defining a residual print queue in addition to the one or more print
6 queues;
7 forwarding print jobs, that identify destination print queue names that
8 are not among the assigned print queue names of the one or more print queues, to
9 the residual print queue; and
10 printing one or more of the print jobs stored in the residual print queue.

1 26. The method of Claim 25, further comprising:
2 forwarding second print jobs, that identify destination print queue
3 names that correspond to one of the assigned print queue names, to its
4 corresponding print queue of the printing device; and
5 printing one or more of the print jobs stored in the print queues having
6 the assigned print queue names.

1 27. The method of Claim 25, further comprising:
2 defining a residual print queue name for the residual print queue; and
3 converting each of the destination print queue names that are not
4 among the assigned print queue names to the residual print queue name.

1 28. The method of Claim 25, further comprising commonly filtering the
2 print jobs that identify the destination print queue names that are not among the
3 assigned print queue names with a shared filter.

1 29. The method of Claim 28, further comprising filtering the print jobs that
2 identify the destination print queue names that are among the assigned print queue
3 names with one or more filters different from the shared filter.